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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/923,672	08/06/2001	Larrie A. Deardurff	10010211-1	1525

7590 10/04/2002

HEWLETT-PACKARD COMPANY
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[REDACTED] EXAMINER

SHEWAREGED, BETELHEM

[REDACTED] ART UNIT [REDACTED] PAPER NUMBER

1774

DATE MAILED: 10/04/2002

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/923,672	DEARDURFF ET AL.	
	Examiner Betelhem Shewareged	Art Unit 1774	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 06 August 2001.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-20 is/are pending in the application.
 - 4a) Of the above claim(s) 1-10 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 11-20 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
 If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>4</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-10, drawn to method of making image, classified in class 347, subclass 1+.
 - II. Claims 11-20, drawn to image, classified in class 428, subclass 195.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process, (e.g., providing a substrate having a porous layer, providing an ink jet ink comprising an ink vehicle and a metallized dye, pouring the ink jet ink into a ball point pen, and hand writing on the porous layer of the substrate in order to form an image).

3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

4. During a telephone conversation with W. Bradley Haymond on 08/29/2002 a provisional election was made with traverse to prosecute the invention of Group II, claims 11-20. Affirmation of this election must be made by applicant in replying to this

Art Unit: 1774

Office action. Claims 1-10 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 11, 14, 17, 18 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Byers (US 5,980,622).

Byers discloses an ink jet ink to be applied onto a medium having a porous inorganic coating (col. 2, lines 26-41), wherein the ink contains an ink vehicle and a dye having a heterocyclic nitrogen, an azo bond, pyridine group bonded to naphthalene, a transition metal such as nickel, cobalt and copper (col. 2, line 47 thru col. 4, line 4). The ink contains 1-5% by wt of dye (col. 4, line 6) and the dye has ligand to transition metal molar ration of 2:1 (formula III and formula IV in col. 12).

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 12, 13, 15, 16 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Byers (US 5,980,622) in view of Evans et al. (US 6,001,161) and Tanuma (US 5,670,249).

Byers discloses an ink jet ink to be applied onto a medium having a porous inorganic coating (col. 2, lines 26-41), wherein the ink contains an ink vehicle and a dye having a heterocyclic nitrogen, an azo bond, pyridine group bonded to naphthalene, a transition metal such as nickel, cobalt and copper (col. 2, line 47 thru col. 4, line 4). Byers fails to disclose a dye that is in a dicarboxalate form and has pyridine group bonded to quinoline, and fails to disclose an inorganic coating containing silica or alumina.

Evans teaches an ink jet ink composition containing an ink vehicle and a dye having a heterocyclic nitrogen, an azo bond, pyridine group bonded to quinoline, a transition metal such as nickel, iron and copper, and the dye has ligand to transition metal molar ration of 1:1 (col. 2, line 28 thru col. 3, line 22; and claims 1, 2 and 3).

Byers and Evans are analogous arts because they are from the same field of endeavor, that is the ink jet art. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the ink jet dye of Evans with the

invention of Byers so as to provide an image having bright hue, good light stability and high quality.

As to claims 15 and 16, it is well known to make a porous ink receiving layer from a coating solution containing silica or alumina, and a porous layer having a pore size ranging from 1-15 nm, preferably 3-10 nm. (See col. 3, lines 1-26 of Tanuma).

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betelhem Shewareged whose telephone number is 703-305-0389. The examiner can normally be reached on Mon.-Thur. 7:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia H Kelly can be reached on 703-308-0449. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-5408 for regular communications and 703-305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

CYNTHIA H. KELLY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700

BS *BS*
September 28, 2002.

